

S/N 09/313,048

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

PATENT

Applicant: Dennis A. Carson et al.

Examiner: Ben Schroeder

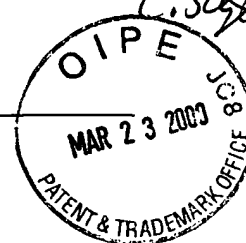
Serial No.: 09/313,048

Group Art Unit: 1611

Filed: May 17, 1999

Docket: 103.009US1

Title: THIAZOLOPYRIMIDINES USEFUL AS TNF ALPHA INHIBITORS



**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record.

Applicants are submitting herewith European Patent No.'s 0 188 150 and 0 348 746 as well as German Patent No. 2038922 with English-language abstracts. Applicants submit that the English-language abstracts attached to the front of the foreign patents are a concise explanation of the relevance of EP 0 188 150, EP 0 348 746 and DE 2038922 as they are presently understood and as required under 37 C.F.R. § 1.98(a)(3). Accordingly, the Examiner is respectfully requested to acknowledge consideration of the foreign patents. For the Examiner's convenience, EP 0 188 150, EP 0 348 746 and DE 2038922 have been listed on the enclosed Form 1449, and duplicate copies of the foreign patents and their English-language abstracts are enclosed herewith.

Pursuant to the provisions of MPEP 609, Applicants further request that a copy of the 1449 form, initialed by the Examiner to indicate that all listed citations have been considered, be returned with the next official communication.

Applicants have included the fee of \$240.00 under 37 C.F.R. §§ 1.97(c) and 1.17(p). Please charge any additional fees or credit any overpayment to Account No. 19-0743.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

DENNIS A. CARSON ET AL.

By their Representatives,

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Date 22 Dec 1999

By Warren D. Woessner, Ph.D.  
Reg. No. 30,440  
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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner of Patents, Washington, D.C. 20231 on December 22, 1999.

Name

Alisia Dumber

Signature

Warren D. Woessner



Form 1449\*

Atty. Docket No.: 103.009US1

Serial No. 09/313,048

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Applicant: Dennis A. Carson et al.

(Use several sheets if necessary)

Filing Date: May 17, 1999

Group: 1611

## U. S. PATENT DOCUMENTS

| **Examiner<br>Initial | Document Number | Date       | Name             | Class | Subclass | Filing Date    |
|-----------------------|-----------------|------------|------------------|-------|----------|----------------|
|                       |                 |            |                  |       |          | If Appropriate |
|                       | 3,594,378       | 07/20/1971 | Laliberte et al. | 260   | 251      | 10/24/69       |
|                       | 3,919,201       | 11/11/1975 | Evans            | 260   | 240 J    | 10/29/73       |
|                       | 4,041,167       | 08/09/1977 | Moser et al.     | 242   | 279      | 01/19/76       |
|                       | 4,103,016       | 07/25/1978 | Moser et al.     | 424   | 270      | 12/22/76       |
|                       | 4,110,451       | 08/29/1978 | Moser et al.     | 424   | 251      | 12/29/76       |
|                       | 4,111,693       | 09/05/1978 | Wright et al.    | 96    | 1.6      | 12/22/76       |
|                       | 4,160,768       | 07/10/1979 | Moser et al.     | 260   | 306.7 T  | 03/02/78       |
|                       | 4,175,961       | 11/27/1979 | Wright et al.    | 430   | 58       | 04/03/78       |
|                       | 4,224,334       | 09/23/1980 | Moser et al.     | 424   | 270      | 04/02/79       |
|                       | 4,593,095       | 06/03/1986 | Snyder et al.    | 544   | 272      | 02/18/83       |
|                       | 4,769,377       | 09/06/1988 | Snyder et al.    | 514   | 263      | 02/03/86       |
|                       | 4,996,208       | 02/26/1991 | Lindner et al.   | 514   | 258      | 06/19/89       |
|                       | 5,521,181       | 05/28/1996 | Meyer et al.     | 514   | 249      | 01/27/95       |
|                       | 5,599,813       | 02/04/1997 | Matsumoto et al. | 514   | 232.5    | 04/01/94       |
|                       | 5,792,767       | 08/11/1998 | Meyer et al.     | 514   | 249      | 06/05/95       |

## FOREIGN PATENT DOCUMENTS

| **Examiner<br>Initial | Document Number | Date       | Country  | Class | Subclass | Translation |    |
|-----------------------|-----------------|------------|----------|-------|----------|-------------|----|
|                       |                 |            |          |       |          | Yes         | No |
|                       | 0188150         | 07/23/1986 | European | C07D  | 513/04   |             |    |
|                       | 0348746         | 01/03/1990 | European | C07D  | 513/04   |             |    |
|                       | 0733633         | 09/25/1996 | European | C07D  | 487/04   |             |    |
|                       | 0849256         | 06/24/1998 | European | C07C  | 235/60   |             |    |
|                       | 2038922         | 03/04/1971 | Germany  | C07D  | 091/42   |             |    |
|                       | 93/06090        | 04/01/1993 | PCT      | C07D  | 239/54   |             |    |

This is  
the same as  
IDS (paper  
#15)

ALREADY  
CONSIDERED  
BS  
7/10/00

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

| **Examiner<br>Initial |  |
|-----------------------|--|
|                       | Abdel-Fattah, A.M., et al., "Reactions with 6-Methyl-2-Thiouracil Synthesis of Dipyrimidino[2,1-b:1',2'-c]Thiazine. A New Ring System", <u>Phosphorus, Sulfur, and Silicon</u> , 72, pp. 145-156, (1992) |
|                       | Basyouni, W.M., et al., "Synthesis and Molluscicidal Properties of Some Newer Thiazoles and Their Thiazolo [5,4,-d] Pyrimidinone Derivatives", <u>Egypt. J. Bilh.</u> , 17, pp. 91-102, (1995)           |
|                       | Bruns, R.F., "Adenosine Antagonism by Purines, Pteridines and Benzopteridines in Human Fibroblasts", <u>Biochemical Pharmacology</u> , 30, pp. 325-333, (1981)   |

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Date Considered

\*Substitute Disclosure Statement Form (PTO-1449)

\*\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



|   |                                    |                       |
|---|------------------------------------|-----------------------|
| Form 1449*  | Atty. Docket No.: 103.009US1       | Serial No. 09/313,048 |
| INFORMATION DISCLOSURE STATEMENT<br>BY APPLICANT<br>(Use several sheets if necessary) | Applicant: Dennis A. Carson et al. |                       |
|   | Filing Date: May 17, 1999          | Group: 1611           |

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|  | Flammang, R., et al., "Iminoethenethiones, RN==C==C==S: Characterization by Neutralization-Reionization Mass Spectrometry and G2(MP2) Theory", <u>Journal of the American Chemical Society</u> , 116 (5), pp. 2005-2013, (1994)  |
|  | Furrer, H., et al., "A new class of potent hypolipemic agents raising high-density lipoproteins. Synthesis, reactions and pharmacological properties", <u>Eur. J. Med. Chem.</u> , 29, pp. 819-829, (1994)   |
|  | Ghoneim, K.M., et al., "Study on the Formation of Thiazolopyrimidinediones and Pyrimidothiazinediones from 6-Methyl-2-thiouracil", <u>Polich. J. Chem.</u> , 72, pp. 1173-1177, (1997)   |
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|  | Goldman, I.M., "A Novel Thiazole Synthesis. 4,5,6,7-Tetrahydrothiazolo[4,5-d]pyrimidine-5,7-diones", <u>The Journal of Organic Chemistry</u> , 34 (11), pp. 3285-3289, (Nov. 1969)   |
|  | Grohe, K., et al., "Cycloacylierung von Enaminen, I Synthese von 2-Thiazolon-Derivaten", <u>Liebigs Ann. Chem.</u> , pp. 1018-1024, (1973)   |
|  | Itoh, T., et al., "Synthesis of Some Tricyclic Heterocycles from 5,6-Diamino-1,3-dimethyluracil", <u>Chem. Pharm. Bull.</u> , 37 (8), pp. 2197-2199, (August 1989)   |
|  | Kaul, R., et al., "2- <sup>14</sup> C-1-Allyl-3,5-diethyl-6-chlorouracil II: Isolation and Structures of the Major Sulfur-Free and Three Minor Sulfur-Containing Metabolites and Mechanism of Biotransformation", <u>Journal of Pharmaceutical Sciences</u> , 71 (8), pp. 897-900, (Aug. 1982) |
|  | Kaul, R., et al., "Mechanism of Formation of SCH <sub>3</sub> -Metabolites Investigated on the Biotransformation of 1-Allyl-3,5-Diethyl-6-Chlorouracil in Rabbits", <u>Chemosphere</u> , 10 (8), pp. 929-934, (1981)   |
|  | Komoriya, K., et al., "Characterization of Immunomodulating Action of TI-31 on Antibody Response in Mice", <u>J. Pharmacobio-Dyn.</u> , 14, pp. 443-447, (1991)  |

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|   | Filing Date: May 17, 1999          | Group: 1611           |

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- Szajda, M., et al., "Reactions of 2-Thiothymine with Esters of Chloroacetic Acid", Polish Journal of Chemistry, 52, pp. 1027-1031, (1983)
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